



SAFETY DATA SHEET

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Stingray ME (HSE No.: 7685)

Revision 3
Revision date 25-Sep-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Stingray ME
Company PelGar International Ltd
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Telephone Tel +44 (0) 1420 80744
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Emergency telephone number Tel +44 (0) 1420 80744
Product code 305.
Intended use Insecticide for professional use only.

2 HAZARDS IDENTIFICATION.

Main hazards Harmful if swallowed. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Pyriproxyfen	1.94%	95737-68-1	94-04-069500	N; R50/53
Tetramethrin	4.78%	7695-12-0	231-711-6	N; R50/53
Alcohol ethoxylate	10 - 20%			Xi;R41
a-Cypermethrin	4.85%	67375-30-8	257-842-9	T; R25 Xn; R48/22 Xi; R37 N; R50/53
Piperonyl butoxide	13%	51-03-6	200-076-7	N; R50/53

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4. FIRST AID MEASURES

Skin contact	May cause skin irritation in susceptible persons. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention.
Eye contact	Contaminated clothing should be washed and dried before re-use. Risk of serious damage to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. If irritation persists obtain medical attention.
Inhalation	Inhalation of mist or spray, may cause irritation of the respiratory system. Move the exposed person to fresh air. Obtain medical advice immediately.
Ingestion	DO NOT INDUCE VOMITING. If conscious give a small amount of water to drink and obtain medical attention. Show the container label or this safety data sheet to the doctor.
General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Contains a synthetic pyrethroid that can cause skin and eye irritation and paraesthesia (tingling and numbness in exposed areas).

5. FIRE FIGHTING MEASURES

Extinguishing media	The product does not burn. Keep fire exposed containers cool by spraying with water if exposed to fire. Fight surrounding fire with dry chemical, foam or water spray.
Fire hazards	This product is not flammable. However, toxic fumes (oxides of carbon, hydrogen chloride and hydrogen fluoride) may be evolved in the event of fire.
Protective equipment	In the event of fire. Wear self-contained breathing apparatus, a chemical protection suit, suitable gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Prevent further spillage if safe. Contain or absorb leaking liquid with earth or sand. Do not allow product to enter drains. If substance has entered a watercourse or sewer or contaminated soil or vegetation, inform the appropriate authority.
Clean up methods	Absorb with inert, absorbent material. Transfer to a suitably labelled container. Subsequently, clean spill area and any tools used with a suitable solution of caustic soda or soda ash and an appropriate alcohol (i.e. methanol, ethanol or isopropanol). Then wash with strong soap and water solution. Collect all washings for disposal.

7. HANDLING AND STORAGE

Handling	If splashing is likely to occur wear approved eye protection. If spray mists are likely, wear a suitable approved respirator. If skin contact is likely to occur wear rubber gloves and suitable impervious protective clothing. Use in a well ventilated area where possible. Always use good personal hygiene procedures when handling chemicals. Do not smoke eat or drink while handling this product. Wash hands, face and exposed skin before meals after using and before eating, drinking or smoking.
Storage	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Keep out of the reach of children.
Specific use	Insecticide for professional use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits	No exposure limits have been set for this material.
Respiratory protection	Suitable approved respirator if exposed to spray mists.
Hand protection	Rubber or plastic gloves.
Eye protection	If splashes are likely to occur, wear: approved safety goggles.
Protective equipment	Impervious clothing. Boots.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Amber.
Odour	Mild.
pH	6.0 - 8.0
Flash point	Not applicable.
Explosive	Not applicable.
Oxidising	Not available.
Vapour pressure	Not available.
Relative density	1.03
Water solubility	miscible.
Fat Solubility	Not available.
Partition coefficient	Not available.
Viscosity	Not available.
Vapour density	Not applicable.
Autoignition temperature	Not applicable.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes.

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11. TOXICOLOGICAL INFORMATION

Toxicological information

Pyriproxyfen	Dermal Rat LD50 = > 2000 mg/kg Oral Rat LD50 = > 5 g/kg
Tetramethrin	Dermal Rat LD50 = > 2000 mg/kg Oral Rat LD50 = > 5000 mg/kg
a-Cypermethrin	Dermal Rat LD50 = > 2000 mg/kg Oral Rat LD50 = 339.9 mg/kg Dermal Rabbit LD50 = > 2000 mg/kg
Piperonyl butoxide	Oral Rat LD50 = 7500 mg/kg Dermal Rabbit LD50 = 1880 - 7950 mg/kg Inhalation Rat LC50/30min = > 5.9 mg/l

Acute toxicity	ORL RAT LD50 200 to 2000mg/Kg;
Corrosivity	Risk of serious damage to eyes. May cause irritation to skin. May cause dermatitis.
Sensitization	May cause sensitisation of susceptible persons by skin contact or by inhalation of spray mist.
Mutagenic effects	Not available.
Carcinogenic effects	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Pyriproxyfen	Daphnia LC50/48h = 0.4 mg/l Rainbow trout LC50/96h = 0.33 - 0.37 mg/l Algae IC50/72h = 0.064 mg/l
Tetramethrin	Daphnia LC50/48h = 0.110 mg/l Bluegill sunfish LC50/96h = 0.016 mg/l
a-Cypermethrin	Daphnia EC50/48h = 0.0003 mg/l Rainbow trout LC50/96h = 0.0028 mg/l
Piperonyl butoxide	Daphnia LC50/48h = 0.51 mg/l Rainbow trout LC50/96h = 6.12 mg/l

Further information Hazardous to bees. This product must not enter water discharge system. Inform appropriate authority if large spillage enters drains.

13. DISPOSAL CONSIDERATIONS

General information	Dispose of as hazardous waste in accordance with local and national regulations.
Disposal of packaging	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations. Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated.

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14. TRANSPORT INFORMATION

ADR/RID

UN 3082
Class 9Packing group III
Hazard ID 90

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S, (contains
alpha-cypermethrin, tetramethrin,
pyriproxyfen).

IMDG

UN 3082
Class 9
EmS Code F-A S-FPacking group III
Marine pollutant . YES

IATA


UN 3082
Class 9
Packing Instruction 914
(Cargo)Packing group III
Subsidiary risk -
Maximum quantity 450 LPacking Instruction 914
(Passenger)

Maximum quantity 450 L

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15. REGULATORY INFORMATION

Symbols	Xn - Harmful; N - Dangerous for the environment 
Risk phrases	R22 - Harmful if swallowed. R41 - Risk of serious damage to eyes. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the
Safety phrases	To avoid risks to man and the environment, comply with the instructions for use. S20 - When using do not eat or drink. S23 - Do not breathe gas/fumes/vapour/spray. S24/25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S38 - In case of insufficient ventilation, wear suitable respiratory equipment. S57 - Use appropriate container to avoid environmental contamination. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets. S62 - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
Statutory Conditions relating to use	The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. Maximum Dose, 50 ml per 5 litres water per 100 square metres sprayable surface. Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment. Wear suitable protective clothing (coveralls) and synthetic rubber/pvc gloves when using. Plus eye protection when diluting. Avoid excessive contamination of coveralls and launder regularly. Do not breathe the spray mist. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS (G) 53: "Respiratory Protective Equipment - a practical guide for users"). However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection. Do not contaminate foodstuffs, eating utensils or food contact surfaces. Cover water storage tanks before application. This material and its container must be disposed of in a safe way. When using do not eat, drink or smoke. Exclude all persons and animals during treatment. Do not apply directly to animals. Extremely dangerous to fish and other aquatic life. Remove or cover fish tanks and bowls before application. Do not contaminate watercourses. Hazardous to bees. Do not apply directly to livestock and poultry. READ ALL PRECAUTIONS BEFORE USE.

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16. OTHER INFORMATION

Text of risk phrases in	R25 - Toxic if swallowed.
Section 3.	R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes. R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Restricted use	Insecticide for professional use only.
Data sources	Raw material suppliers Safety Data Sheets. CHIP 2002 EH40
Replaces	Replaces revision 2. Changes to section 3, 4, 6, 11, 12, 13, 15